

Fig. 1

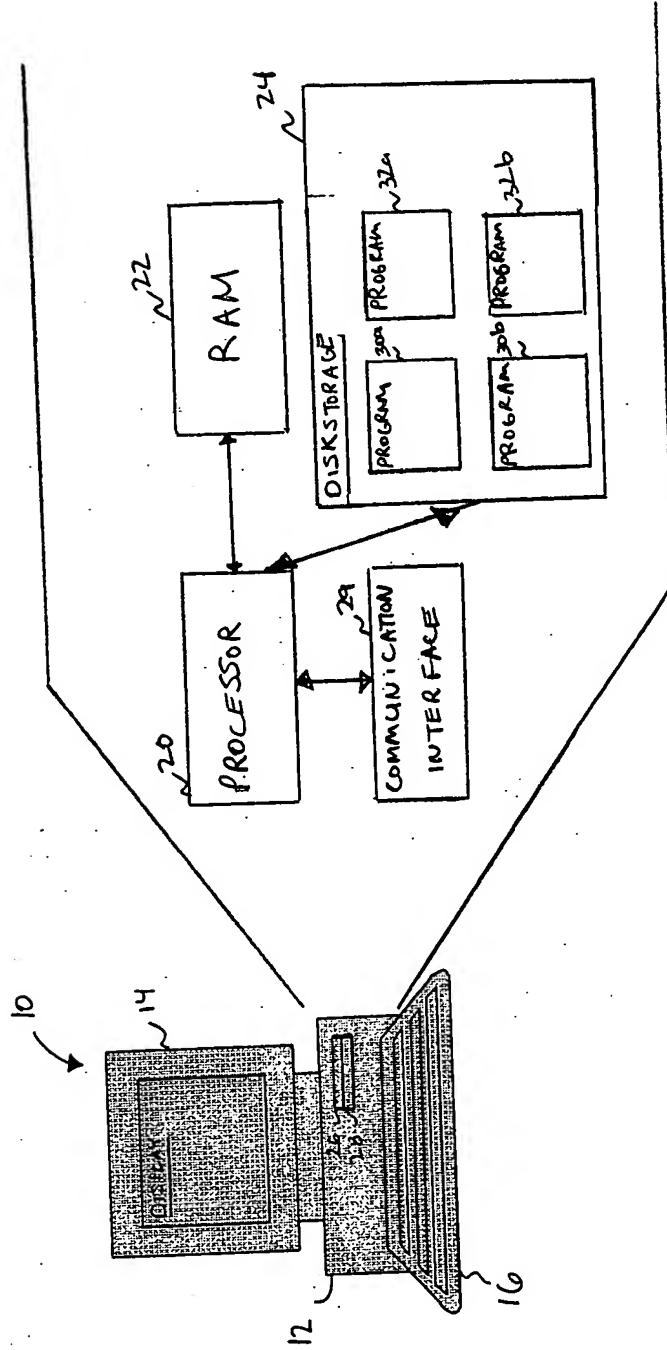


Fig. 2

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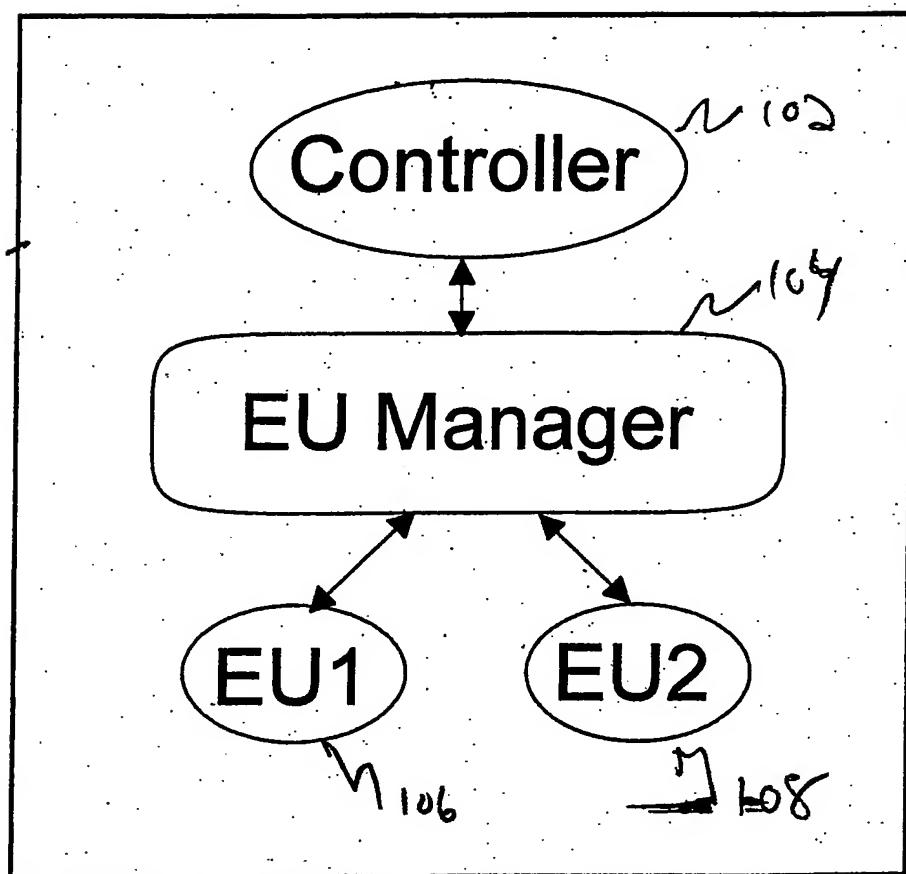


Fig. 3

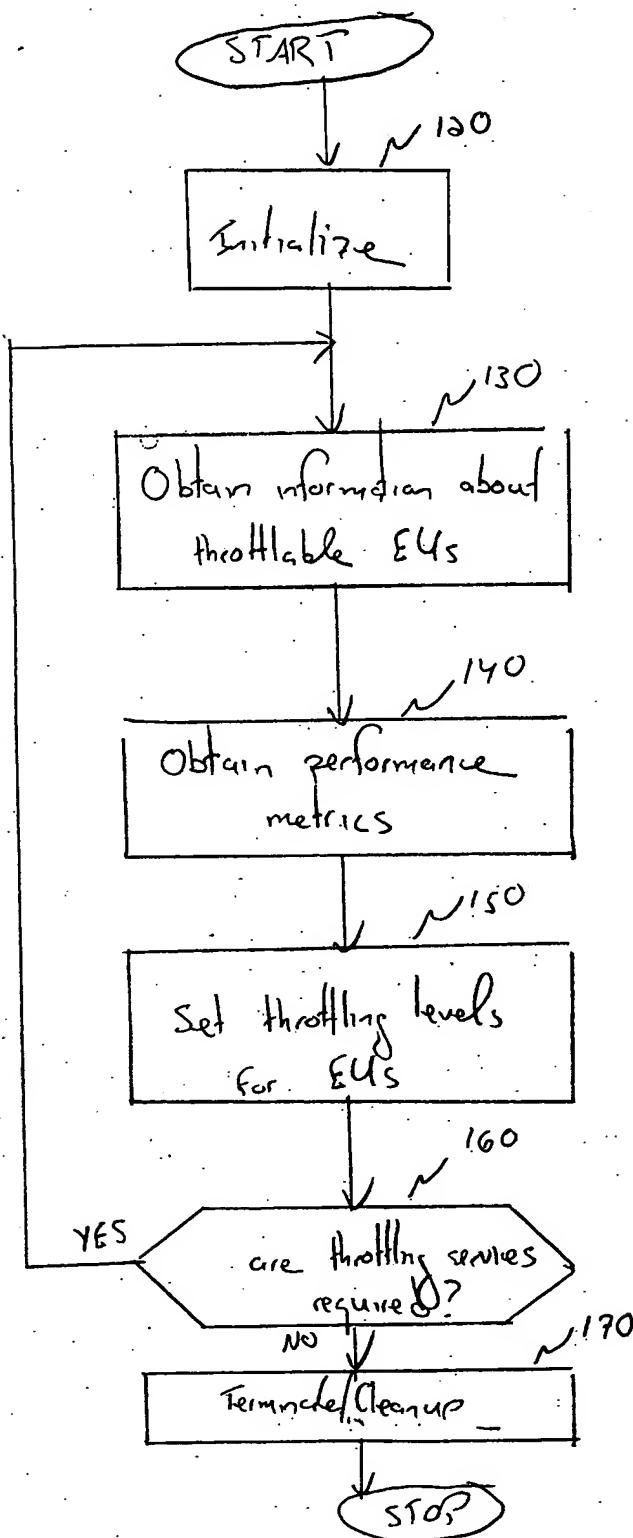


Fig.4

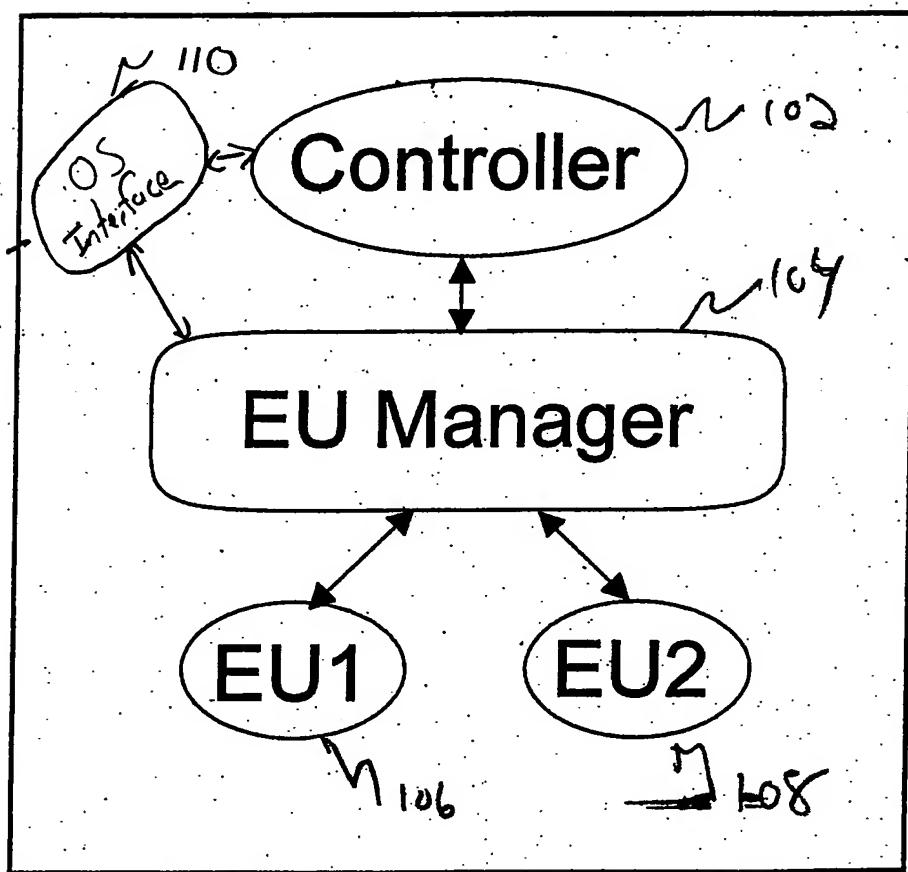


Fig. 5

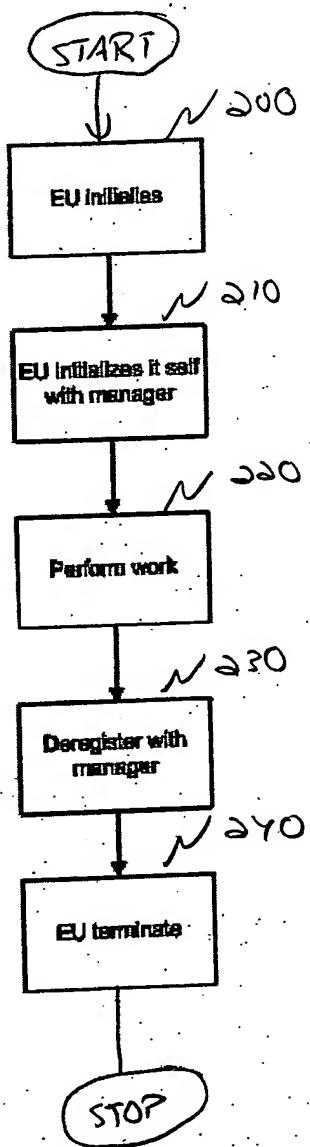


Fig. 6

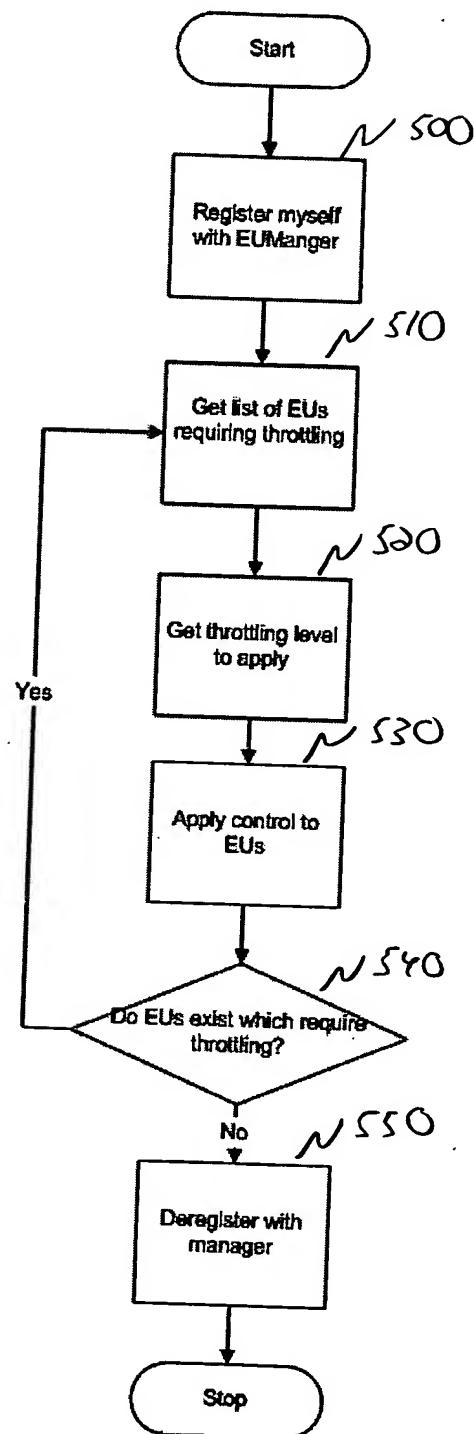


Fig. 6b

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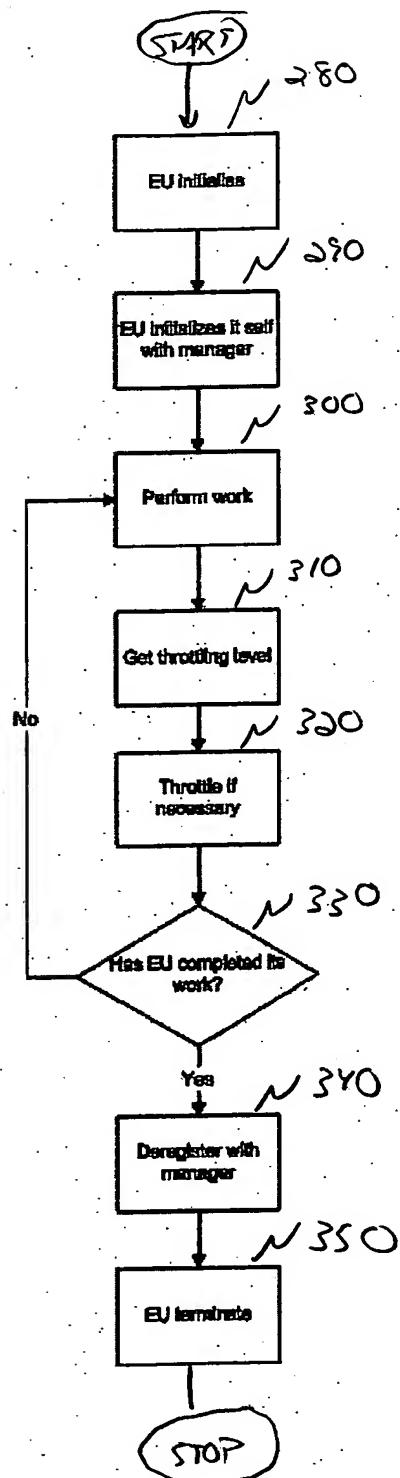


Fig. 7

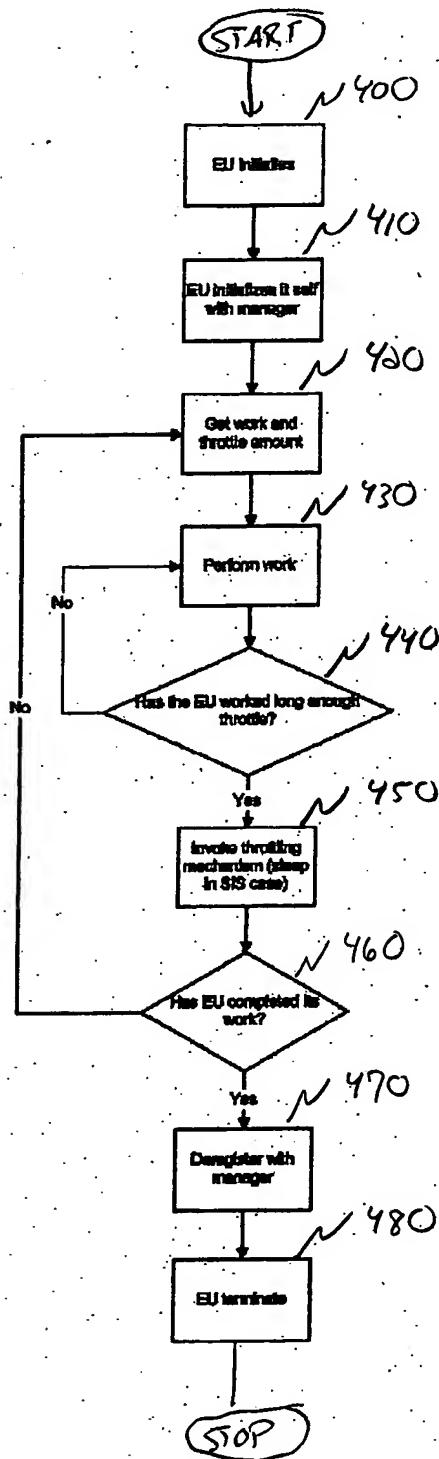


Fig. 8

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```
COMPONENT ThrottleAgent
BEGIN
EUManager->RegisterThrottleAgent();
While (EUManager->IsThrottlingRequired()
BEGIN
EUList = EUManager->GetListOfEUs( self );
ThrottlingLevels = EUManager->GetThrottlingLevel( EUList );
... apply ThrottlingLevel to EUs in EUList ...
END
EUManager->DeregisterThrottleAgent();
END
```

Fig. 9

```
COMPONENT EU
BEGIN
... Initialization ...
EUManager->RegisterEU(...args...);

While( NOT Done )
BEGIN
... Do some work ...
ThrottlingLevel = EUManager->GetThrottlingLevel( self );
Throttle(ThrottlingLevel);
END

... Termination ...
EUManager->DeRegisterEU();
END
```

Fig. 10

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```
FUNCTION Utility()
BEGIN
    WHILE (NOT done)
        BEGIN
            ... do some work ...
            ThrottleIfNeeded()
        END
    END
```

(a) Inserting SIS point

```
FUNCTION ThrottleIfNeeded()
BEGIN
    (workTime, sleepTime) = GetThrottlingLevel() ;
    timeWorked = Now() - workStart ;
    IF (timeWorked > workTime)
        SLEEP( sleepTime ) ;
    workStart = Now() ;
ENDIF
END
```

(b) SIS implementation

Fig. 11

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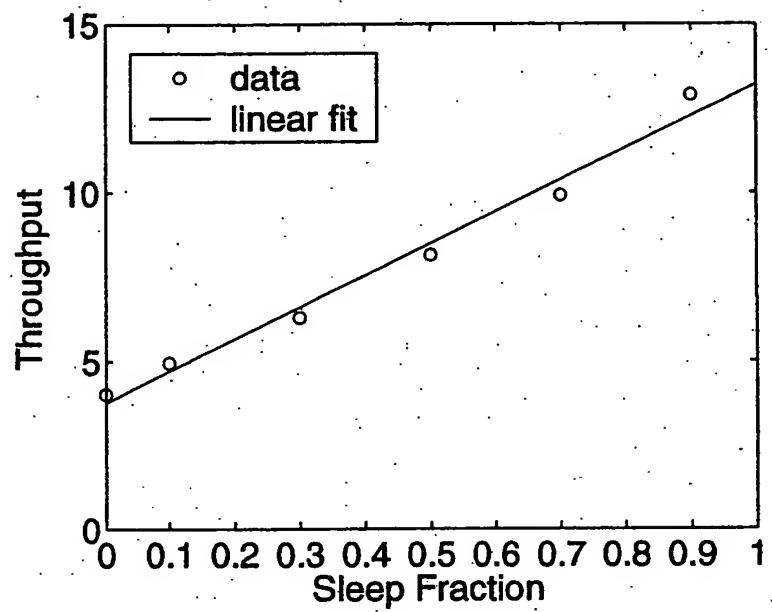


Fig. 12

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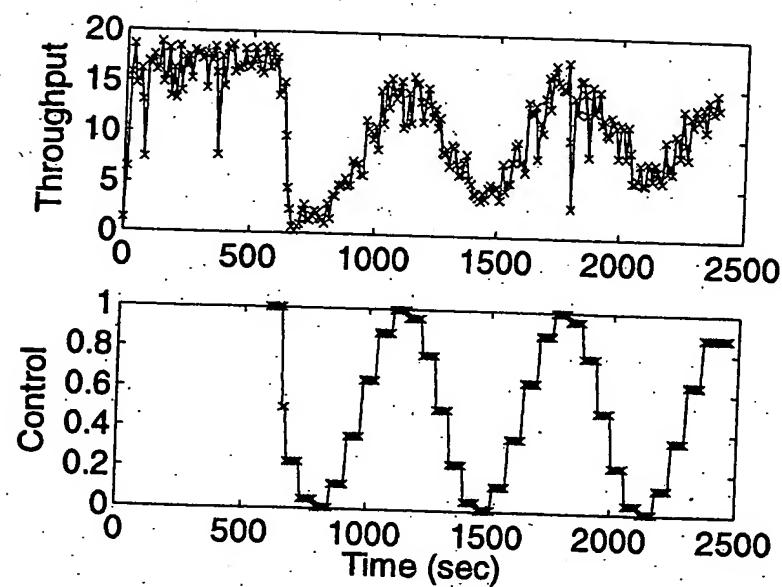


Fig. 13